

**Listing of Claims:**

Please cancel claims 60-64 and 69-73 without prejudice.

In addition, please amend claims 56, 65, and 74 to read as follows.

This listing of claims will replace all prior versions and listings of claims in the instant application.

---

1 – 55 (Cancelled)

56. (Currently Amended) A recombinant nucleic acid molecule that encodes a chimeric AgfA fimbrin polypeptide comprising at least one heterologous antigen, wherein said chimeric polypeptide comprises an AgfA fimbrin amino acid sequence as set forth in SEQ ID NO:5 or a homologue thereof in which at least one fimbrin polypeptide segment that is present in SEQ ID NO:5 is replaced with a heterologous polypeptide antigen segment that is equal in length to the fimbrin polypeptide segment, or in which at least one fimbrin polypeptide segment that is present in the homologue of SEQ ID NO:5 is replaced with a heterologous polypeptide antigen segment that is equal in length to the fimbrin polypeptide segment nucleic acid molecule encodes a chimeric polypeptide selected from the group consisting of SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:24, SEQ ID NO:26, SEQ ID NO:28, and SEQ ID NO:30.

57. (Previously Added) The recombinant nucleic acid molecule according to claim 56 wherein said recombinant nucleic acid molecule is present in an expression vector, said expression vector producing the chimeric polypeptide when expressed in a host cell.

58. (Previously Added) A host cell comprising the recombinant nucleic acid molecule according to claim 57 wherein said host cell produces the chimeric polypeptide.

59. (Previously Added) The host cell according to claim 58 wherein said host cell produces stable fimbriae comprising the chimeric polypeptide.

60. - 64 (Cancelled)

65. (Currently Amended) The host cell according to ~~any one of claims 56-64~~  
claim 58 or claim 59 wherein said host cell is selected from the group consisting of a strain of Enterobacteriaceae, Escherichia coli, and Salmonella.

66. (Previously Added) The recombinant nucleic acid molecule according to claim 56 wherein said recombinant nucleic acid molecule is in the chromosome of a host cell.

67. (Previously Added) The recombinant nucleic acid molecule according to claim 66 wherein said host cell produces the chimeric polypeptide.

68. (Previously Added) The recombinant nucleic acid molecule according to claim 66 wherein said host cell produces stable fimbriae comprising the chimeric polypeptide.

69. – 73. (Cancelled)

74. (Currently Amended) The recombinant nucleic acid molecule according to any one of ~~claims 66-73-claims 66-68~~ wherein said host cell is selected from the group consisting of a strain of Enterobacteriaceae, Escherichia coli, and Salmonella.